

AMENDMENTS TO THE CLAIMS

1-16. (Canceled)

17. (New) A bulk power supply system comprising:
a first bulk power supply;
a second bulk power supply;
at least one isolation diode for hot swapping between said first bulk power supply and said second bulk power supply without disabling the first or second bulk power supply;
an output filter that receives output from said converters; and
an output receiver that receives output from said output filter.

18. (New) The bulk power supply system of claim 17 wherein each bulk power supply comprises:
a line filter that receives AC input power from a power distribution control assembly;
a rectifier for converting said AC input power into DC power;
a power factor correction to ensure said DC power has at least a predetermined value for power factor;
and a converter that receives said DC power after power factor correction.

19. (New) The bulk power supply system of claim 17 wherein said line filter suppresses harmonic signals from reflecting back into AC input lines.

20. (New) The bulk power supply system of claim 17 further comprising a control logic for controlling said bulk power supply system.

21. (New) The bulk power supply system of claim 19 wherein said control logic sends and receives status information to and from a power monitor via a connector.

22. (New) The bulk power supply system of claim 21 further comprising at least one fan for cooling said bulk power supply system.

23. (New) The bulk power supply system of claim 22 further comprising at least one bias supply for supplying power to said at least one fan and said control logic.

24. (New) The bulk power supply system of claim 18 wherein said power factor correction ensures a power factor of greater than 0.98.

25. (New) The bulk power supply system of claim 17 further comprising:

a load share controller to control load sharing in said bulk power supply system.

26. (New) A bulk power supply system comprising:

a first converter chain comprising a first line filter, a first rectifier, a first power factor correction, and a first converter;

a second converter chain comprising a second line filter, a second rectifier, a second power factor correction, and a second converter;

at least one isolation diode, wherein said at least one isolation diode hot swaps between said first converter chain and said second converter chain upon failure of one of said converter chains; and

whereby a failure of one converter chain will permit the remaining converter chain to satisfy the load for said bulk power supply system.

27. (New) The bulk power supply system of claim 26 wherein hot swapping between said first converter chain and said second converter chain without use of a switch occurs instantaneously.

28. (New) A method of providing a supply power output for a user system comprising:

receiving a first AC input from a first AC input line;

receiving a second AC input from a second AC input line;

converting said first AC input and said second AC input into DC power;

adjusting said DC power to ensure that said DC power has at least a predetermined value for a power factor;

sending said corrected DC power to at least two converters, wherein said at least two converters are designated to receive DC power of differing voltage levels;

transmitting outputs of said at least two converters to at least one isolation diode and to an output filter; and

receiving an output from said output filter.

29. (New) The method of claim 28, said method further comprising:

suppressing harmonic signals from reflecting back to each of said AC input lines.

30. (New) The method of claim 28, said method further comprising:
providing said output received from said output filter back to a chassis for distribution
to other components of said user system.
31. (New) The method of claim 28, said method further comprising:
sending and receiving status information between a power monitor and said user
system via a connector.
32. (New) The method of claim 28 wherein said power factor is greater than 0.98.